Serial Number 10/719,048
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Amendment1

Amendments to the Specification

Please replace paragraph [0022] with the following amended paragraph:

[0022] In the preferred JEDI process, the JIT compiler converts the bytecode into an object code that the VM executes. The object code generated by the JIT compiler does not have the read-only restriction that a loaded class has. It solves all three problems of bytecode transformation ~~transformation~~ mentioned above. First, the JIT compiler can re-generate the object code for a loaded class as many times as necessary without violating the read-only requirement of a loaded class. JIT compilation is also very efficient. Second, the JIT compiler generates object code, which can directly interact with any other object code, within and without the VM, without requiring the expensive JNI (Java native interface). The object code can access the internal state of the VM and collect meta data that bytecode itself cannot access. Collecting and reporting runtime information can be written in object code that interacts with the object code generated by the JIT compiler for the purpose of instrumentation. Third, it will be transparent to VM implementations since execution of object code is performed outside the VM.

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